



[Home](#) [Authors](#) [Abstracts](#) [Search](#) [Browsers and Plugins](#)



Under the ausp



Sociedade
Portuguesa
de Reumatologia



Autoimmunity 2008 Congress website: <http://www.kenes.com/Autoimmunity2008/>

SERA CONCENTRATIONS OF ANTI-THYROPEROXIDASE AUTOANTIBODIES MEASURED BY TWO RADIOIMMUNOASSAYS**S. Zivancevic Simonovic¹, O. Vrdic¹, A. Djukic¹, M. Stanojevic¹, L. Dimitrijevic²**¹*School of Medicine, University of Kragujevac, Kragujevac, Serbia,* ²*Institute of Immunology and Virology, Torlak, Belgrade, Serbia*

Measurement of autoantibodies against the thyroid microsomal antigen, now identified as thyroperoxidase autoantibodies (TPOAb), is necessary in diagnosis of autoimmune thyroid diseases, especially Hashimoto's thyroiditis. There are a lot of commercial assays for determination TPOAb in patients' sera. The aim of this study was to compare TPOAb concentrations obtained by using two radioimmunoassays (RIA): CIS Bio international (France) and Immunotech (Czech Republic). Blood samples (5 ml) for measurement of TPOAb concentrations were collected in the Clinical Centre Kragujevac. After allowing the sample to clot, the serum was separated by centrifugation at 3000 rpm for 15 minutes, decanted and preserved at -20°C until used. The total number of specimens was 38. Analyses were performed according to producers' manuals. The values of sera TPOAb concentrations obtained by two RIA assays were compared by regression analysis and the correlation coefficient $r = 0.61$ was obtained. There was significant difference between absolute values of TPOAb concentrations in almost all samples, and the higher absolute values were obtained by using CIS Bio international assay. Besides, the relative values (calculated as ratio of measured and upper limit concentrations) determined by CIS radioimmunoassay were higher than the values obtained by Immunotech assay. Despite the differences in absolute and relative values of TPOAb obtained by two RIA assays, high data in CIS Bio international were proved by the Immunotech, we could say that the both assays we used are sensitive in the diagnosis of autoimmune thyroid disease.

Key words: TPOAb, radioimmunoassay, autoimmune thyroid disease.